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(54) RARE EARTH PERMANENT MAGNET

(57)Abstract:

PURPOSE: To improve the coercive force of rare earth permanent magnet without increasing an expensive heavy rare earth elements by irregularly distributing elements including heavy rare earth element and aluminum in a base particles made of light rare earth element, B and Fe.

CONSTITUTION: 20W35% by weight of R (where R is at least one or more of light rare earth elements), 0.5W1.5% of B, 0.1W10% of L (where L is at least one of heavy rare earth elements including Y, and at least one or more of Al, Ti, V, Nb, Mo), and the residue of M (where M is Fe or a mixture of Fe and Co) are used to form an anisotropic sintered magnet. In this case, elements L are irregularly distributed in R2M14B base particles. For example, elements L exist irregularly in the vicinity of grain boundary in R1M14B base particles and an R-rich state.

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